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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/658,824	09/08/2003	Stephen I. Rennard	UNMC/03017/0008	7805
75	590 06/17/2005		EXAM	INER
Moser, Patterson & Sheridan, LLP			AFREMOVA, VERA	
Suite 1500 3040 Post Oak Blvd.			ART UNIT	PAPER NUMBER
Houston, TX 77056-6582			1651	
		DATE MAILED: 06/17/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/658,824	RENNARD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vera Afremova	1651				
The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ti oly within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror te, cause the application to become ABANDON	imely filed  sys will be considered timely.  n the mailing date of this communication.  ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 l	December 2004.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-22 are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar	y (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail E	Oate Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	r atent Application (P10-152)				
U.S. Patent and Trademark Office						
PTOL-326 (Rev. 1-04) Office A	Action Summary	Part of Paper No./Mail Date 062005				

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## **DETAILED ACTION**

Claims 1-22 are pending and subject to restriction requirement.

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-10, drawn to a method for culturing embryoid bodies from embryonic stem cells, classified in class 435, subclass 395, for example.
- II. Claims 11-19, drawn to a method for differentiating embryoid bodies to fibroblasts, classified in class 435, subclass 377, for example.
- III. Claim(s) 20, drawn to a differentiated fibroblasts cell, classified in class 435, subclass 366, for example.
- IV. Claim(s) 21, drawn to a method of screening a compound for activity or cytotoxicity by using a differentiated fibroblast cell, classified in class 435, subclass 4+, for example.
- V. Claim(s) 22, drawn to a cultured embryoid body, classified in class 435, subclass 325+, for example.

The inventions are distinct, each from the other because of the following reasons:

The processes of groups I, II and IV are distinct from one another as claimed because they recite different and distinct steps of treating different materials and using different conditions as claimed that lead to different and distinct products and /or that lead to different results and effects.

The products of groups III and V are distinct from one another as claimed because encompass cellular products having different characteristics as claimed.

Inventions II and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case differentiated fibroblasts can be made from skin tissue, for example: see col. 4, line 65 of US 4,423,145.

Inventions I and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case an embryoid body can be made and/or cultured in liquid culture or cell suspensions, fro example: see Fig. 1-c in the reference by Keller G.M. ("In vitro differentiation of embryonic stem cells". Current Opinion in Cell Biology. 1995, 7:862-869).

Inventions III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case differentiated fibroblast cells can be used in a different process of using or as feeder cells, for example: see col. 4, line 65 of US 4,423,145.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and the search required for one group is not required for the other groups, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicants are advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vera Afremova whose telephone number is (571) 272-0914. The examiner can normally be reached from Monday to Friday from 9.30 am to 6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached at (571) 272-0926.

The fax phone number for the TC 1600 where this application or proceeding is assigned is (571) 273-8300.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 1600, telephone number is (571) 272-1600.

Vera Afremova

AU 1651

June 15, 2005

VERA AFREMOVA

V. Spromov

PRIMARY EXAMINER